

Docket No.: PBLI-P05-005

This is a continuation of U.S. Serial No.: 08/489,071 filed
6/9/95

Title: Modified Interferons

Atty: William G. Gosz

Reg. No. 27,787

ATGGCCTTG

9

MetAlaLeu

-23

10	TCCTTTTCTTTACTGATGGTCGTGCTGGTACTCAGCTACAAATCCATCTGCTCTCTGGGC	69
	SerPheSerLeuLeuMetValValLeuValLeuSerTyrLysSerIleCysSerLeuGly	
	-20 -10 -1	
70	TGTGATCTGCCTCAGACCCACAGCCTGCGTAATAGGAGGGCCTTGATACTCCTGGCACAA	129
	CysAspLeuProGlnThrHisSerLeuArgAsnArgArgAlaLeuIleLeuLeuAlaGln	
	1 10 20	
130	ATGGGAAGAATCTCTCCTTTCTCCTGCTTGAAGGACAGACATGAATTCAGATTCCCAGAG	189
	MetGlyArgIleSerProPheSerCysLeuLysAspArgHisGluPheArgPheProGlu	
	30 40	
190	GAGGAGTTTGATGGCCACCAGTTCAGAACTCAAGCCATCTCTGTCCTCCATGAGATG	249
	GluGluPheAspGlyHisGlnPheGlnLysThrGlnAlaIleSerValLeuHisGluMet	
	50 60	
250	ATCCAGCAGACCTTCAATCTCTTCAGCACAGAGGACTCATCTGCTGCTTGGGAACAGAGC	309
	IleGlnGlnThrPheAsnLeuPheSerThrGluAspSerSerAlaAlaTrpGluGlnSer	
	70 80	
310	CTCCTAGAAAAATTTTCCACTGAACTTTACCAGCAACTGAATGACCTGGAAGCATGTGTG	369
	LeuLeuGluLysPheSerThrGluLeuTyrGlnGlnLeuAsnAspLeuGluAlaCysVal	
	90 100	
370	ATACAGGAGGTTGGGGTGGAGAGACTCCCTGATGAATGAGGACTCCATCCTGGCTGTG	429
	IleGlnGluValGlyValGluGluThrProLeuMetAsnGluAspSerIleLeuAlaVal	
	110 120	
430	AGGAAATACTTCCAAAGAATCACTCTTTATCTAACAGAGAAGAAATACAGCCCTTGTGCC	489
	ArgLysTyrPheGlnArgIleThrLeuTyrLeuThrGluLysLysTyrSerProCysAla	
	130 140	
490	TGGGAGGTTGTCAGAGCAGAAATCATGAGATCCCTCTCGTTTTCAACAACTTGCAAAAA	549
	TrpGluValValArgAlaGluIleMetArgSerLeuSerPheSerThrAsnLeuGlnLys	
	150 160	
550	AGATTAAGGAGGAAGGATTGA	570
	ArgLeuArgArgLysAspEnd	166

Fig. 1. Nucleotide and Amino Acid Sequence of Hu-IFN- α 001. The location of the *A/w*NI site is underlined. The signal peptide is shown as the 23 amino acids labeled -1 to -23.

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1	MALSFSLLMVVLVLSYKSICSLGCDLPQTHSLRNRRALILLAQMGRISPF	50
1	MARSFSLLMVVLVLSYKSICSLGCDLPQTHSLRNRRALILLAQMGRISPF	50
51	SCLKDRHEFRFPPEEEFDGHQFQKTQAISVLHEMIQQTFFNLFSTEDSSAAW	100
51	SCLKDRHEFRFPPEEEFDGHQFQKTQAISVLHEMIQQTFFNLFSTEDSSAAW	100
101	EQSLLEKPFSTELYQQQLNDLEACVIEVGVEETPLMNEDSILAVRKYFQRI	150
101	EQSLLEKPFSTELYQQQLNDLEACVIEVGVEETPLMNEDFILAVRKYFQRI	150
151	TLYLTEKKYSPCAWEVVRAEIMRSLSFSTNLQKRLRRKD	189
151	TLYLMEKKYSPCAWEVVRAEIMRSFSFSTNLKGLRRKD	189

Fig. 2. Comparison of the Protein Sequence of Hu-IFN- α 001 with that of Hu-IFN- α J. The signal peptide represents the first 23 amino acids at the amino terminus.

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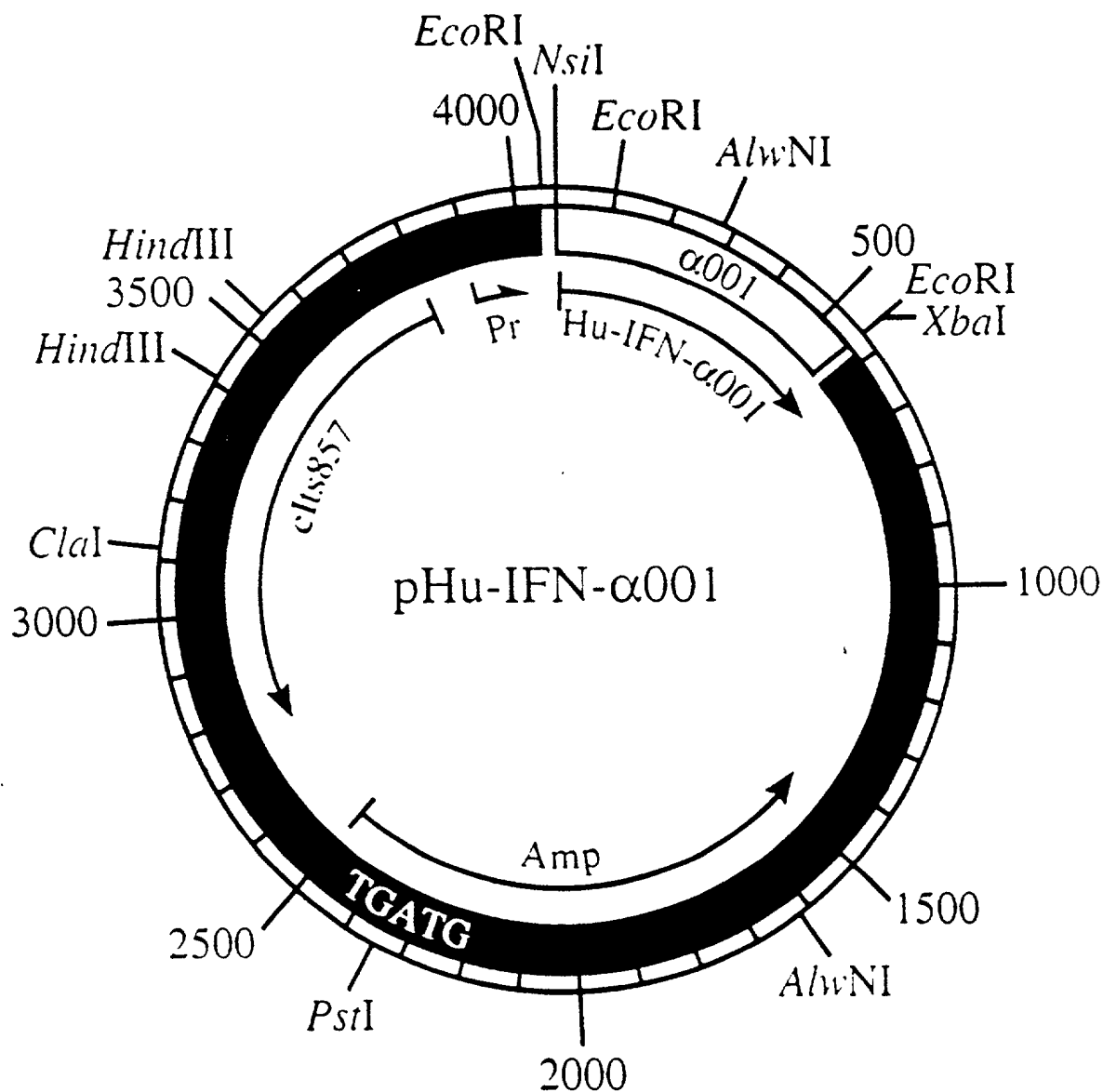


FIG. 3. Expression vector for Hu-IFN- α 001. The structure of the plasmid pHu-IFN- α 001 is shown. The *NsiI* site represents nucleotide position =1. The P_R promoter drives expression of Hu-IFN- α 001.

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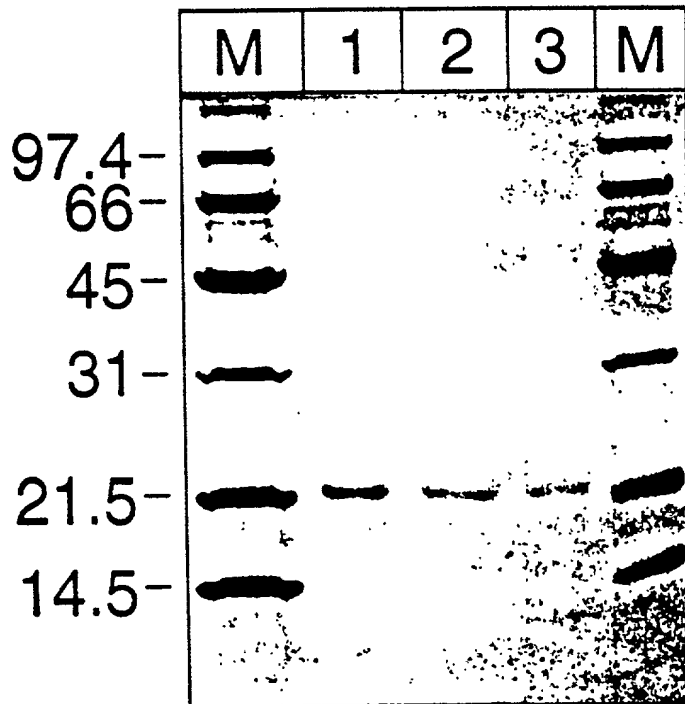


Fig. 4. SDS-Polyacrylamide Gel Electrophoresis of the Purified Hu-IFN- α 001. Hu-IFN- α 001 was placed in lanes 1, 2 and 3 in amounts of 3 μ g, 1.5 μ g and 0.75 μ g, respectively. The columns labeled M represent the molecular weight markers with the values in kilodaltons given to the left of each respective molecular weight marker.